# **3D Signpost - Numerical Results**

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# Numerical Results

The following images demonstrate how to plot the normal stresses XX,YY,ZZ and shear stresses XY,YZ,XZ.

Right-click on Solution >Insert>Stress>Normal for normal stresses and Solution >Insert>Stress>Shear for shear stresses.

Select the post as the geometry and click Apply.

Change the Orientation tab to alter the stress direction. Note that the maximum normal stress occurs in the zz direction and the maximum shear stress occurs in the xz direction. This makes sense with the given loads and boundary conditions.

Note: These results are based on a post diameter equal to 1.12 ft.



For clearer solution labels, right click the newly created Stress Solution>Rename Based on Definition.

Finally, click on the Solve button. Your result should be very similar to the following figures.

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## XY Shear Stress



### YZ Shear Stress



#### XZ Shear Stress



#### Go to Step 7: Verification & Validation

Go to all ANSYS Learning Modules